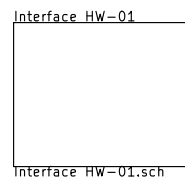
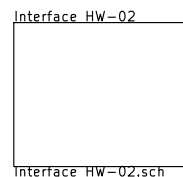


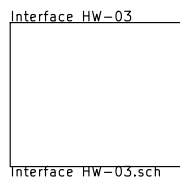
Alex Sojda  
Galvo Interface Block Diagram V0.1  
<http://alex-sojda.org/blog>  
alex.sojda@gmail.com



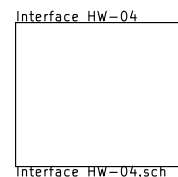
Page 01:  
-- ControlStick and Raspberry Pi Conn  
-- DAC  
-- Reference Voltage  
-- Power Connector  
-- Laser Driver



Page 02:  
-- X-Axis Output Buffer

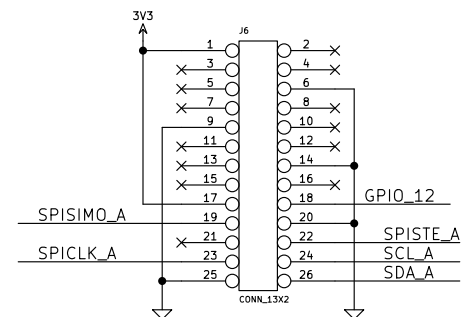
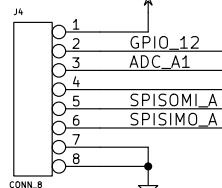
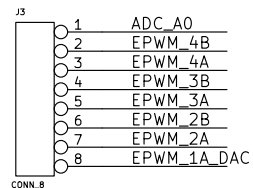
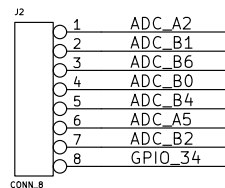
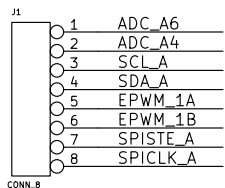


Page 03:  
-- Y-Axis Output Buffer

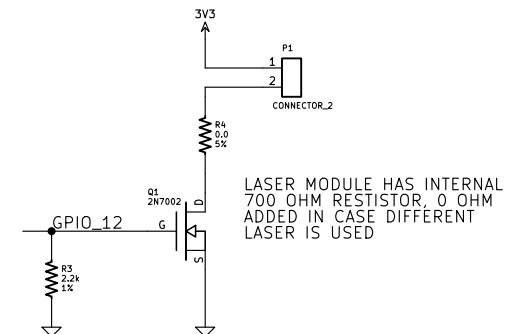
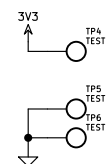
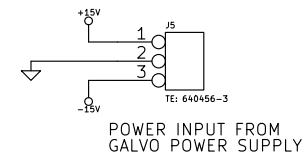
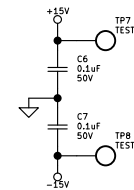
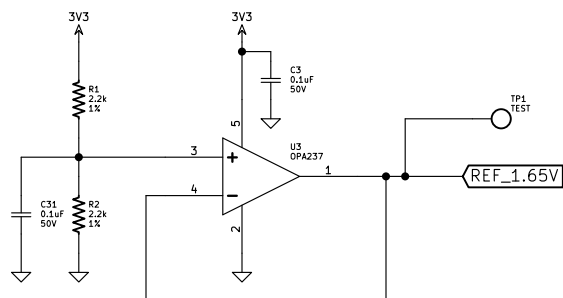
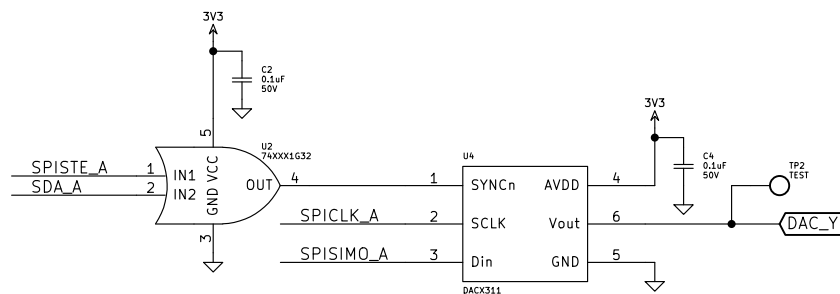
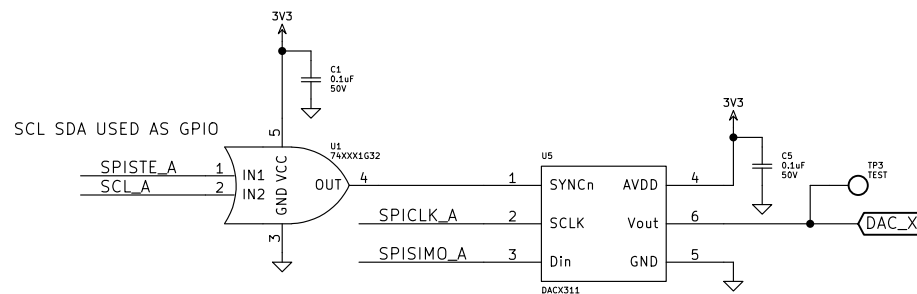


Page 04:  
-- Input Power Step-Down Regulator

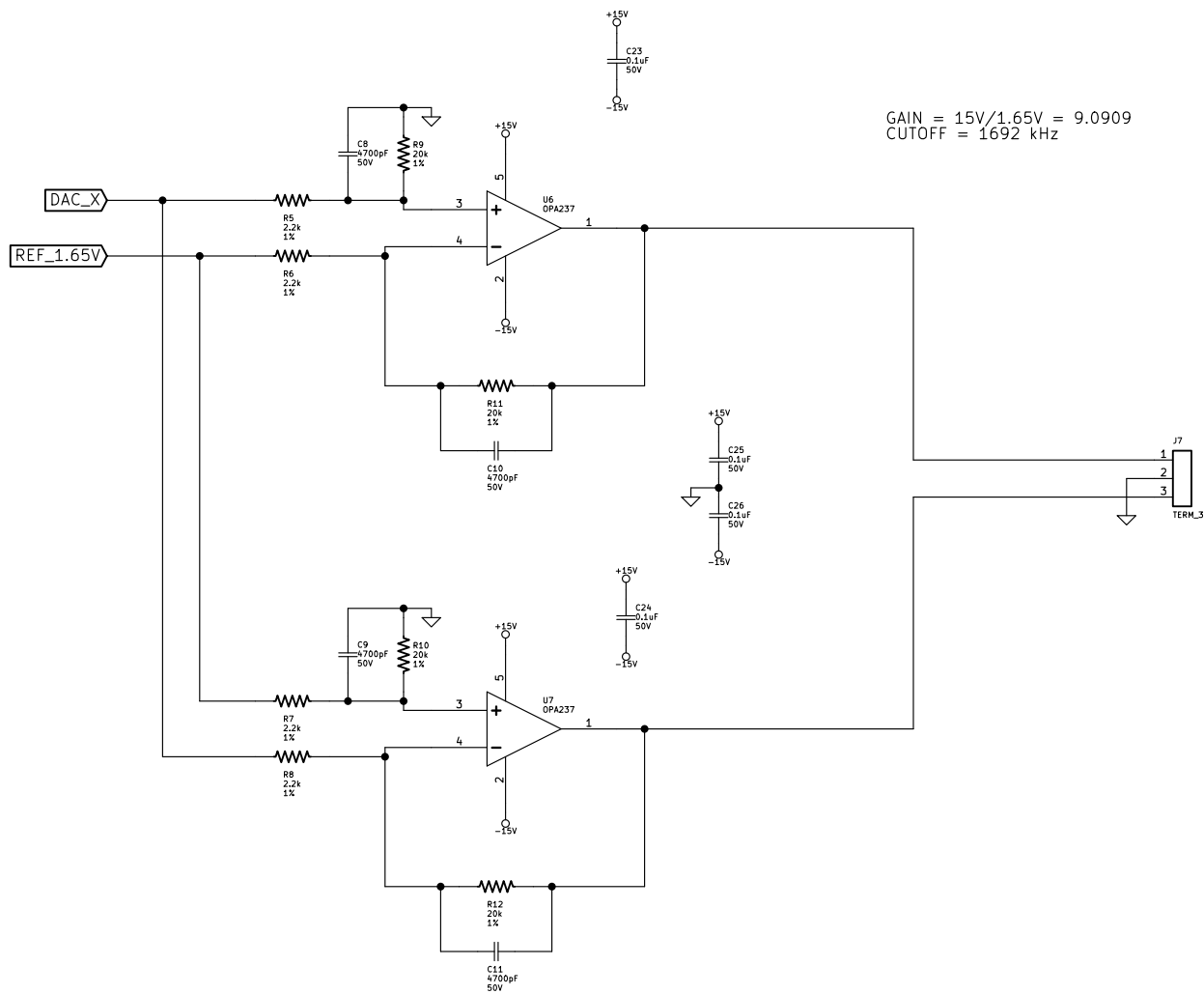
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|---------------------------------|-------------------|--------|
| File: Interface HW.sch          |                   |        |
| Sheet: /                        |                   |        |
| Title: Defcon Bot Interface Brd |                   |        |
| Size: A                         | Date: 19 apr 2014 | Rev: 1 |
| KiCad E.D.A.                    | Id: 1/5           |        |



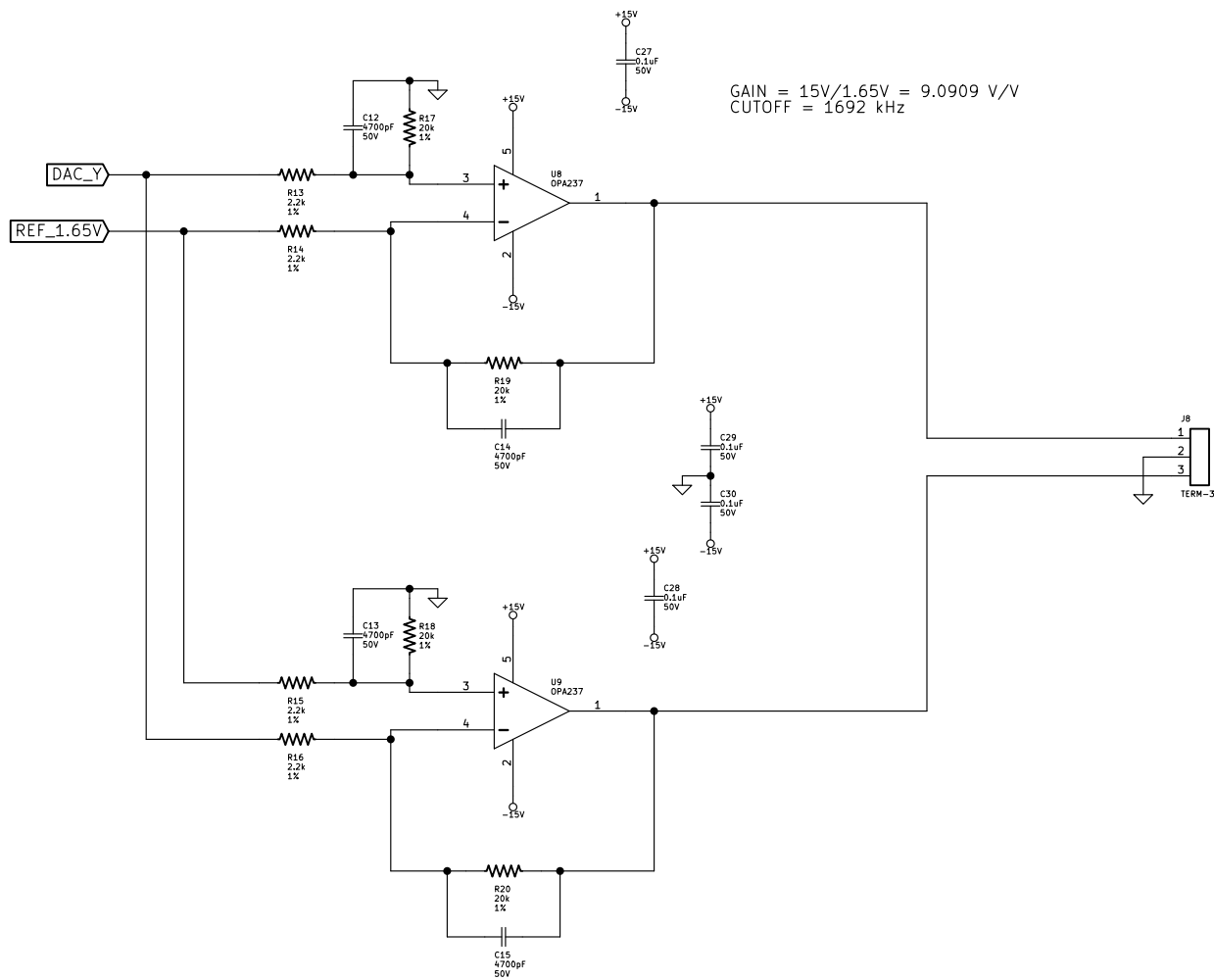
RASPBERRY PI HAS TWO SLAVE SELECT PINS, OR GATES ARE NOT NEEDED. SCL\_A/SDA\_A ARE SLAVE SELECT, SPISTE\_A IS GPIO



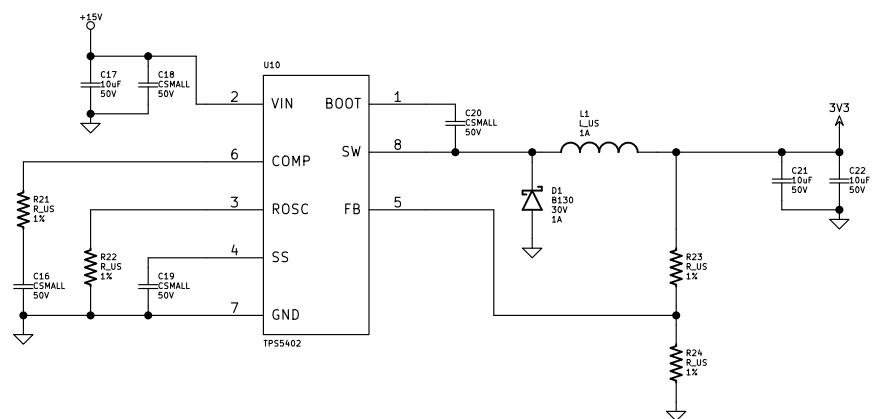
|                                    |                   |         |
|------------------------------------|-------------------|---------|
| File: Interface HW-01.sch          |                   |         |
| Sheet: /Interface HW-01/           |                   |         |
| Title: Connector, DAC, Power Input |                   |         |
| Size: A                            | Date: 19 apr 2014 | Rev: 1  |
| KiCad E.D.A.                       |                   | Id: 2/5 |



|                           |                   |        |
|---------------------------|-------------------|--------|
| File: Interface HW-02.sch |                   |        |
| Sheet: /Interface HW-02/  |                   |        |
| Title: X-Axis Buffer      |                   |        |
| Size: A                   | Date: 19 apr 2014 | Rev: 1 |
| KiCad E.D.A.              | Id: 3/5           |        |



|                           |                   |         |
|---------------------------|-------------------|---------|
| File: Interface HW-03.sch |                   |         |
| Sheet: /Interface HW-03/  |                   |         |
| Title: Y-Axis Buffer      |                   |         |
| Size: A                   | Date: 19 apr 2014 | Rev: 1  |
| KiCad E.D.A.              |                   | Id: 4/5 |



|                           |                   |
|---------------------------|-------------------|
| File: Interface HW-04.sch |                   |
| Sheet: /Interface HW-04/  |                   |
| Title: Buck Conveter      |                   |
| Size: A                   | Date: 19 apr 2014 |
| KiCad E.D.A.              | Rev: 1            |
|                           | Id: 5/5           |